

CLAIMS

[1] A recording and reproducing device that records and reproduces information, said device comprising:

an obtainment unit operable to obtain first information;

5 an information recording unit operable to record the first information in a first recording area and to record second information in a second recording area, the first information being obtained by said obtainment unit, and the second information having the same content as the first information;

10 an invalidation unit operable to invalidate the second information;

a receiving unit operable to receive a recording instruction which requests the first information recorded in the first recording area to be recorded in the second recording area; and

15 a validation unit operable to validate the invalidated second information in the case where said receiving unit receives the recording instruction.

[2] The recording and reproducing device according to Claim 1,
20 further comprising

a management data recording unit operable to record, in a management data recording area, management data which is data indicating whether the second information is valid or invalid,

25 wherein said invalidation unit is operable to invalidate the second information by making said management data recording unit record, in the management data recording area, management data indicating that the second information is invalid, and

30 said validation unit is operable to validate the second information by making said management data recording unit update the management data so as to indicate that the second information is valid.

[3] The recording and reproducing device according to Claim 1,
further comprising

5 a judgment unit operable to judge whether or not there is a
predetermined relationship between attribute information of the
first information obtained by said obtainment unit and attribute
information of the information which is recorded in the second
recording area,

10 wherein said information recording unit is operable to record
the second information in the second recording area in the case
where said judgment unit judges that there is the predetermined
relationship between the attribute information of the first
information and the attribute information of the information which is
recorded in the second recording area.

15 [4] The recording and reproducing device according to Claim 1,
further comprising

a second information generation unit operable to generate the
second information by converting a format of the first information to
a format other than the format of the first information,

20 wherein said information recording unit is operable to record
the second information in the second recording area, the second
information being generated by said second information generation
unit.

25 [5] The recording and reproducing device according to Claim 4,
wherein said second information generation unit is operable
to convert the format of the first information to a format
corresponding to an available space, which is the space where
additional recording is possible, in the second recording area.

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[6] The recording and reproducing device according to Claim 1,
further comprising

a second information generation unit operable to generate the second information by converting a bit rate of the first information to a bit rate other than the bit rate of the first information,

wherein said information recording unit is operable to record
5 the second information in the second recording area, the second information being generated by said second information generation unit.

10 [7] The recording and reproducing device according to Claim 6,
wherein said second information generation unit is operable
to convert the bit rate of the first information to a bit rate
corresponding to an available space, which is the space where
additional recording is possible, in the second recording area.

15 [8] The recording and reproducing device according to Claim 1,
further comprising

a second recording area confirmation unit operable to confirm
whether or not the second information is recorded in the second
recording area,

20 wherein said second recording area confirmation unit is
operable to make said validation unit validate the second
information in the case of confirming that the second information is
recorded in the second recording area.

25 [9] The recording and reproducing device according to Claim 1,
further comprising:

a size detection unit operable to detect size of the second
information; and

30 a comparison unit operable to compare the size of the second
information detected by said size detection unit with an available
space, which is the space where additional recording is possible, in
the second recording area,

wherein said information recording unit is operable to record the second information in the second recording area in the case where the size of the second information is equal to or less than the available space as a result of the comparison performed by said
5 comparison unit.

[10] The recording and reproducing device according to Claim 1, further comprising:

10 a size detection unit operable to detect size of the first information;

a comparison unit operable to compare the size of the first information detected by said size detection unit with an available space, which is the space where additional recording is possible, in the second recording area; and

15 a second information generation unit operable to generate the second information by converting a format or a bit rate of the first information to a different format or bit rate so as to make the size of the second information equal to or less than the available space in the case where the size of the first information exceeds the available
20 space as a result of the comparison performed by said comparison unit,

25 wherein said information recording unit is operable to record the second information in the second recording area, the second information being generated by said second information generation unit.

[11] The recording and reproducing device according to Claim 1, further comprising

30 a reproduction disabling unit operable to disable reproduction of the first information in the case where said receiving unit receives the recording instruction.

[12] The recording and reproducing device according to Claim 1,
wherein the first recording area is a first recording medium,
and the second recording area is a second recording medium,
said recording and reproducing device further comprises:

5 a first holding unit which holds the first recording medium;
a second holding unit which holds the second recording
medium;

10 an ejection instruction detection unit operable to detect an
ejection instruction requesting to eject the second recording
medium from said second holding unit to the outside of said
recording and reproducing device;

15 a reproduction disabling unit operable to disable reproduction
of the second information which is recorded in the second recording
medium and is invalidated, in the case where said ejection
instruction detection unit detects the ejection instruction; and

an ejection unit operable to eject the second recording
medium from said second holding unit to the outside of said
recording and reproducing device, after said reproduction disabling
unit disables reproduction of the second information.

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[13] The recording and reproducing device according to Claim 12,
further comprising

25 a recording confirmation unit operable to confirm with a user
whether or not the first information corresponding to the second
information recorded in the second recording medium and
invalidated is recorded in the second recording medium in the case
where said ejection instruction detection unit detects the ejection
instruction,

30 wherein said reproduction disabling unit is operable to disable
reproduction of the first information in the case where said
recording confirmation unit confirms that the first information is to
be recorded in the second recording medium, and to disable

reproduction of the second information in the case where said recording confirmation unit confirms that the first information is not to be recorded in the second recording medium, and

5 said ejection unit is operable to eject the second recording medium from said second holding unit to the outside of said recording and reproducing device after said reproduction disabling unit disables reproduction of the first information or the second information.

10 [14] The recording and reproducing device according to Claim 12, further comprising:

 a processing detail recording unit operable to record details of processing so that said reproduction disabling unit disables reproduction of the second information; and

15 a reproduction enabling unit operable to enable, based on the details of the processing, reproduction of the second information in which reproduction is disabled, after the second recording medium which is ejected by said ejection unit is held by said second holding unit again.

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[15] The recording and reproducing device according to Claim 1, wherein the first recording area and the second recording area are present in a recording medium,

 said recording and reproducing device further comprises:

25 a holding unit which holds the recording medium;

 an ejection instruction detection unit operable to detect an ejection instruction requesting to eject the recording medium from said holding unit to the outside of said recording and reproducing device;

30 a reproduction disabling unit operable to disable reproduction of the second information which is recorded in the recording medium and is invalidated, in the case where said ejection instruction

detection unit detects the ejection instruction; and
an ejection unit operable to eject the recording medium from
said holding unit to the outside of said recording and reproducing
device, after said reproduction disabling unit disables reproduction
5 of the second information.

[16] The recording and reproducing device according to Claim 15,
wherein a format or a bit rate of the first information is
different from a format or a bit rate of the second information,
10 said recording and reproducing device further comprises
a recording confirmation unit operable to confirm whether or
not the first information corresponding to the second information
recorded in the recording medium and invalidated is converted to
the same format or bit rate as the second information, in the case
15 where said ejection instruction detection unit detects the ejection
instruction,
wherein said reproduction disabling unit is operable to disable
reproduction of the first information in the case where said
recording confirmation unit confirms that the first information is to
20 be converted to the same format or bit rate as the second
information, and operable to disable reproduction of the second
information in the case where said recording confirmation unit
confirms that the first information is not to be converted to the same
format or bit rate as the second information, and
25 said ejection unit is operable to eject the recording medium
from said holding unit to the outside of said recording and
reproducing device, after said reproduction disabling unit disables
reproduction of the first information or the second information.

30 [17] The recording and reproducing device according to Claim 15,
further comprising:
a processing detail recording unit operable to record details of

processing so that said reproduction disabling unit disables reproduction of the second information; and

a reproduction enabling unit operable to enable, based on the details of processing, reproduction of the second information in which reproduction is disabled, after the recording medium which is ejected by said ejection unit is held by said holding unit again.

[18] An information recording method comprising:

an obtainment step of obtaining first information;

an information recording step of recording the first information in a first recording area and recording second information in a second recording area, the first information being obtained by said obtainment step, and the second information having the same content as the first information;

an invalidation step of invalidating the second information;

a receiving step of receiving an instruction requesting the first information recorded in the first recording area to be recorded in the second recording area; and

a validation step of validating the invalidated second information in the case where the instruction is received by said receiving step.